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ABSTRACT

This survey was undertaken to determine what subject areas would need to be supplemented, should the "L" holdings of the Graduate Collection be transferred to the undergraduate library to form an "education collection" at the University of Hawaii, and to determine how well the libraries meet standards in providing resources to adequately support instruction, research, and educational programs. Fourteen representative journal titles were selected in seven specialized areas, using periodical guides. Number of references and call numbers were recorded for cited titles in bibliographies of the first article in the first and third 1975 issues. Journals and monographs were referred to approximately an equal number of times, and four subject disciplines accounted for over 75 percent of the literature covered by educational journals: (1) education; (2) psychology; (3) sociology; and (4) political science. The graduate library held 24 of 25 titles cited at least twice in the subject areas of education, psychology, and sociology. The study concluded that the libraries have resources to adequately support research in education, and that material in psychology is needed to supplement the "L" materials in the education collection. (Author/KP)

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CITATION SURVEY OF EDUCATION LITERATURE

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CITATION SURVEY OF EDUCATION LITERATURE

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(Note: In the spring of 1976, I was asked to perform a citation survey of education literature at the University of Hawaii. I wish to acknowledge Laura Sorenson, at that time a University of Hawaii Graduate School of Library Studies intern, who assisted in gathering the citations.)

Citation surveys may be used for such diverse reasons as providing a list of further readings, tracing original works, or studying the frequency of journals for acquisition. The primary purpose for this citation survey was to determine what subject areas would need to be supplemented should the "L' holdings at Hamilton Library, the Graduate Collection, be transferred to Sinclair Library to form an "education collection." Presently, Sinclair Library is the Undergraduate Collection plus Music.

Surveys usually involve various statistics. Therefore, it was anticipated that this survey would also produce additional information. As this study was undertaken, it was thought that it might be possible to ascertain how well the Hamilton and Sinclair libraries met certain standards as recommended by the National Council for Accreditation of Teacher Education.[1] They state:

Teacher Education--Basic Programs

> 4.1 Library Standard: The library is adequate to support institution, research and services pertinent to each teacher education program.

Teacher Education--Advanced Programs

G-4.1 Library Standard: The library provides resources that are adequate to support instruction, independent study, and research required for each advanced program.

Illustrative Questions

Standard 4.1 Library. What evidence shown that the library collection includes: a. . . . b. Standard periodicals in education? c. Such additional specialized books, periodicals, and other resources needed to support each teacher education program? . . .

The above recommendations are not specific. For example, they do not give exact numbers or percentages. Therefore, the citation survey could at least show to what extent the University of Hawaii Library has collected "education" literature in order to meet the needs of the education students.

The Survey

The most difficult task for this particular survey was selecting a manageable number of titles. It would have been ideal to survey both journals and monographs. However, there were two obvious problems in dealing with monographs: selecting an appropriate number of titles; or choosing one appropriate title as June L. Stewart was able to do in her survey of political science literature.[2] Therefore, it was decided not to survey monographs and to use only journals.

It is generally accepted "that primary journals for coverage of a given field can be selected rationally on the basis of their

citation frequencies in an appropriate secondary journal."[3] This would satisfy the initial purpose of determining what other subjects are covered in education literature. The difficulty lay in selecting the appropriate secondary journals. Donald Windsor states that ". . . the selection of journals for satellite areas of specialization is the real problem. Each specialist wants as many journals in his field as he can obtain. Fortunately, and usually unknown to the specialist, most of the articles on any given subject appear in a relatively small number of journals (Bradford Law 2)."[4]

There are ten departments within the University of Hawaii, College of Education. They are: Counseling & Guidance, Curriculum & Instruction, Educational Administration, Educational Communications, Educational Foundations, Educational Psychology, Field Services, Health & P.E., Industrial Education, and Special Education. Field Services is not a degree program, so it was not included in the survey as a separate category. Health & P.E. and Industrial Education were combined with Curriculum & Instruction. It was noted that research in Health & P.E. could involve material in the fields of biological and physiological sciences that would be supplemented by the graduate collection. Educational Psychology, and Counseling & Guidance were also considered together because of the overlap. A category "General" was added because of basic education titles that are of importance but do not concentrate in one area. Seven "specialty" areas were listed:

General

Educational Administration

Educational Communications

Educational Foundations

Educational Psychology/Counseling & Guidance

Curriculum & Instruction/Health & P.E./Industrial Education

Special Education

One to three journal titles were evaluated as being representative of those areas using Willima Camp's Guide to Periodicals in Education, 1968, and Bill Katz's Magazines for Libraries, 1972, and Supplement. Each title selected is indexed in both Education Index and CIJE, the two most frequently used indexes of educational periodical literature. The 14 journals selected were:

1.	Teacher's College Record	Feb. 1975, Sept. 1975
2.	Harvard Educational Review	Feb. 1975, August 1975
3.	National Association of Secondary School Principals Bulletin	Jan. 1975, Oct. 1975
4.	Educational Administration Quarterly	Winter 1975, Winter 1976
5.	A-V Communication Review	Spring 1975, Fall 1975
6.	Comparative Education Review	Feb. 1975, June 1975
7.	Journal of Educational Research	Jan. 1975, Sept. 1975
8.	Educational Theory	Summer 1975, Winter 1975
9.	Journal of Educational Psychology	Feb. 1975, August 1975
10.	Journal of Experimental Child Psychology	April 1975, June 1975
11.	Journal of Counseling Psychology	May 1975, Nov. 1975
12.	Educational Leadership	March 1975, Oct. 1975

13. Educational Forum Jan. 1975, May 1975

14. Exceptional Children Jan. 1975, Sept. 1975

For each title, the first and third issues of 1975 were chosen for the survey period. Two non-consecutive issues were used in cases where issues were missing or misplaced, or being used at the time the survey was undertaken.

In each issue, the bibliography of the first article was surveyed. Each cited title appearing in the bibliography was noted together with the number of times that title was referred to. The total number of journal titles includes some duplication of titles. For example, if title "A" had been cited in journal title "B," three times, and in journal title "C," two times, it was counted twice and as having a total number of five references. It was used in this way in the initial survey because the emphasis was on the subject area, not on the number of times a particular title was cited.

The cited titles from these bibliographies were classified by call number as found in the Hamilton and Sinclair Library card catalogs, or in Ulrich's International Periodicals Directory. Table I shows the breakdown.

The Findings

As shown in Table I there was a total of 489 references to 388 journals and monographs. In addition, there were 134 references to miscellaneous sources such as court cases, newspapers, dissertations, ERIC documents, and private communications. (See Table II) This group was not included in the percentage tally as

the survey was limited to journals and monographs. For some reason, it was particularly heavy in reference to court cases--96 references to be exact--and this would have no doubt made the statistics too lopsided in an area in which they may not ordinarily be so.

The number of references to journals and monographs was almost evenly divided--243:246. There were almost twice as many monographs as journals--246:142. The four subject disciplines with major bibliographic emphasis were as follows:

Education	31.0% (151 references);	34.5% (134 titles)
Psychology	27.2% (133 references);	21.0% (81 titles)
Sociology	9.4% (46 references);	9.3% (36 titles)
Poli. Science	7.8% (38 references);	8.0% (31 titles)
TOTAL	75.4%	72.8%

It is interesting to note that of the total number of references, journals and monographs in the field of psychology comprise more than one-fourthof the literature cited. Sociological material makes up almost 10% of the literature, followed by political science materials covering almost 8%. The combined percentages of these four subject areas encompass over 75% of the literature that these education journals covered.

Hamilton Library and Sinclair Library Holdings

As stated earlier, along with the major reason for this survey, there was a secondary reason--to find out how well the University of Hawaii libraries fare in meeting the education students' needs as regards their collection. A tally was taken of the journal titles that were cited at least twice in this

survey in the three major subject areas.

In education, there were nine titles that had been cited at least twice. Hamilton Library has eight of those nine titles, or 88 4/5%. Sinclair Library has six of those nine titles, or 66 2/3%. (See Table III) In psychology Hamilton Library has all ten of the journals that were cited at least twice. Sinclair Library has six of the ten, or 60%. (See Table IV) Of the sociology journals most frequently cited, Hamilton Library has all six, and Sinclair Library has four of the six, or 66 2/3%. (See Table V)

Summary and Conclusion

The results of this citation survey showed that in addition to the "L" (education) call number, material in the field of psychology is needed for an "education collection." Four subject areas, education, psychology, sociology, and political science composed 75% of the literature surveyed. Education research appears to encompass far more than "how to" texts.

The University of Hawaii, College of Education presently offers the Master's of Education in six areas, the Ed.D. in three areas, and the Ph.D. in one area. The Master's of Education programs include Educational Psychology, and Counseling & Guidance; and the Ph.D. is in Educational Psychology. These three programs, or 30% of the advanced degrees offered by the College of Education, roughly correlates with the percentage of psychology-related material that was covered by the literature in this survey. Hamilton Library, as the Graduate Collection, has 100% of the journal titles in psychology that were cited more than once.

Hamilton and Sinclair Library also proved to have substantial holdings of both education and sociology journals.

These statistics do not necessarily reflect what the students at the University of Hawaii are doing as far as research is concerned. They do show that the libraries have the resources to adequately support the research found in education literature.

REFERENCES

[1]National Council for Accreditation of Teacher Education. Standards for the Accreditation of Teacher Education (Wash., D. C.: NCATE, 1972).

[2]Elliot S. Palais, "The Significance of Subject Dispersion for the Indexing of Political Science Journals," Journal of Academic Librarianship 2 (May 1976): p. 73.

[3]Donald A. Windsor, "Rational Selection of Primary Journals for a Biomedical Research Library: the Use of Secondary Journal Citations," Special Libraries 64 (October 1973): p. 450.

[4]Ibid., p. 447.

TABLE 1

LC Classification	No. of Jrnls. (A)	No. of Refs. (B)	No. of Monogs. (C)	No. of Refs. (D)	A + C	% of Titles	B + D	% of Refs.
AP (Gen. Works)	5	5			5	1.3	5	1.0
B (Philosophy)	1	1	1	1	2	0.5	2	0.4
BF (Psychology)	28	80	53	53	81	21.0	133	27.2
DS - E (History; Area Studies)	2	2	2	2	4	1.0	4	0.8
GN (Anthropology)	1	1	3	3	4	1.0	4	0.8
GV (Sports; recr.)			1	1	1	0.3	1	0.2
H (Gen. Soc. Sci.)	2	2	3	3	5	1.3	5	1.0
HA (Statistics)			3	3	3	0.8	3	0.6
HB - HF (Economics)	9	13	7	7	16	4.1	20	4.1
HM - HX (Sociology)	21	32	15	15	36	9.3	46	9.4
J (Political Sci.)	11	18	20	20	31	8.0	38	7.8
K (Law)	3	3	2	2	5	1.3	5	1.0
L (Education)	39	56	95	95	134	34.5	151	31.0
M (Music)			3	3	3	0.8	3	0.6
P (Lang.; Lit.)			7	7	7	1.8	7	1.4

TABLE 1 (Continued)

LC Classification	No. of Jrnls. (A)	No. of Refs. (B)	No. of Monogs. (C)	No. of Refs. (D)	A + C	% of Titles	B + D	% of Refs.
Q (Gen. Science)	4	9	4	4	8	2.1	13	2.7
QA (Mathematics)			3	3	3	0.8	3	0.6
QH (Natural History)	4	7	6	6	10	2.6	13	2.7
QL - QP (Natural Sci.)			6	6	6	1.5	6	1.2
R (Medicine)	1	1	2	2	3	0.8	3	0.6
RC (Mental Health)	9	10	8	8	17	4.4	18	3.7
RJ (Pediatrics)			2	2	2	0.5	2	0.4
TK (Elect. Engrg.)	1	2			1	0.3	2	0.4
Z (Bibliography)	1	1			1	0.3	1	0.2
Totals	142	243	246	246	388	100.3	489	99.8

TABLE 2

Miscellaneous References

Title or Category/ LC Classification	No. of Refs.
Court Cases/K	96
ERIC/L	2
Encyclopaedia Britannica/AE	1
International Encyclopedia of the Social Sciences/H	1
Government Documents/L	1
Newspapers/-	17
Private Communications/-	2
Television Telecasts/-	1
Unpublished Doctoral Dissertations/-	4
Dissertation Abstracts International/Z	9
Total	134

TABLE 3

Frequency of Citation to Education Journals

Title	Cited	Available HL	Available SL
Journal of Educational Psychology	9	Yes	Yes
Journal of Verbal Learning & Verbal Behavior	7	Yes	Yes
Harvard Educational Review	6	Yes	Yes
Review of Educational Research	3	Yes	Yes
Sociology of Education	3	Yes	Yes
Comparative Education Review	2	Yes	No
Educational Screen & AV Guides	2	Yes	Yes
Journal of College Student Personnel	2	Yes	No
Notes on Education	2	No	No
All other titles (number of titles)		20	
Total individual titles		29	
Total references cited		56	

Notes: HL - Hamilton Library; SL - Sinclair Library

TABLE 4

Frequency of Citation to Psychology Journals (BF)

Title	Cited	Available HL	Available SL
Journal of Applied Behavior Analysis	13	Yes	Yes
Journal of Counseling Psychology	12	Yes	No
Psychological Review	10	Yes	Yes
Psychological Bulletin	9	Yes	Yes
Journal of Counseling & Clinical Psychology	8	Yes	Yes
American Psychologist	6	Yes	No
Journal of Experimental Psychology	5	Yes	No
Developmental Psychology	4	Yes	Yes
Journal of Experimental Child Psychology	4	Yes	No
Contemporary psychology	2	Yes	Yes
All other titles (number of titles)		10	
Total individual titles		20	
Total references cited		80	

Notes: HL - Hamilton Library; SL - Sinclair Library

TABLE 5

Frequency of Citation to Sociology Journals (HM - HX)

Title	Cited	Available HL	Available SL
Child Development	5	Yes	Yes
American Journal of Society	3	Yes	Yes
American Sociological Review	3	Yes	Yes
Journal of Social Issues	3	Yes	Yes
Social Biology	3	Yes	No
Eugenics Review	3	Yes	No
All other titles (number of titles)		11	
Total individual titles		17	
Total references cited		32	

Notes: HL - Hamilton Library; SL - Sinclair Library